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	Application No.	Applicant(s)	
Notice of Allowability	10/046,585	PHAM ET AL.	
	Examiner	Art Unit	
	Samuel M Heinrich	1725	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commendation is s	n this application. If not included unication will be mailed in due co	l ourse. <b>THIS</b>
1. This communication is responsive to			
2. The allowed claim(s) is/are <u>1-20</u> .			
3. $\boxtimes$ The drawings filed on <u>14 January 2002</u> are accepted by the	e Examiner.		
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority un</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> </ul>	,	or (f).	
2.  Certified copies of the priority documents have	been received in Application	on No	
3.  Copies of the certified copies of the priority doc	cuments have been receive	d in this national stage application	on from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file IENT of this application.	e a reply complying with the requ	irements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EX es reason(s) why the oath o	AMINER'S AMENDMENT or NO r declaration is deficient.	TICE OF
6. CORRECTED DRAWINGS ( as "replacement sheets") mus	t be submitted.		
(a)  including changes required by the Notice of Draftspers	on's Patent Drawing Review	w (PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the			ack) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	SIT OF BIOLOGICAL MAT FOR THE DEPOSIT OF BIO	ERIAL must be submitted. No DLOGICAL MATERIAL.	te the
Attachment(s)			
1. Notice of References Cited (PTO-892)		formal Patent Application (PTO-	152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413), /Mail Date	
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 01/02 & 05/03	8), 7. ☐ Examiner's	Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allow	ance
of Biological Material	9.  Other	_•	
		Samuel M Heinrich Primary Examiner Art Unit: 1725	

Application/Control Number: 10/046,585

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## **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance: the instant claimed apparatus' and methods for hydrocarbon reforming comprising a combustion chamber and a convection chamber in fluid communication with the combustion chamber and at least one burner disposed in the combustion chamber for generating a flow of flue gas from the combustion chamber to the convection chamber and having a sensible heat, and comprising a reaction chamber having a first substantial portion thereof disposed in the combustion chamber and having a second substantial portion thereof disposed in the convection chamber, wherein the second portion is a tube-intube, and means for flowing a first mixed-feed through the first part of the reaction chamber, and means for flowing a second mixed-feed through the second part of the reaction chamber counter-currently with the flow of flue gas in the convection chamber.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel M Heinrich whose telephone number is 571-272-1175. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas G Dunn can be reached on 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Samuel M Heinrich Primary Examiner

Samuel M. Henrich

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